

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
17 February 2005 (17.02.2005)

PCT

(10) International Publication Number  
**WO 2005/014964 A1**

(51) International Patent Classification:  
3/58, F41H 5/26, 5/04, B32B 17/10

E06B 5/12,

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(21) International Application Number:

PCT/GB2004/003050

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(22) International Filing Date: 12 July 2004 (12.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

0316863.0 18 July 2003 (18.07.2003) GB

0403582.0 18 February 2004 (18.02.2004) GB

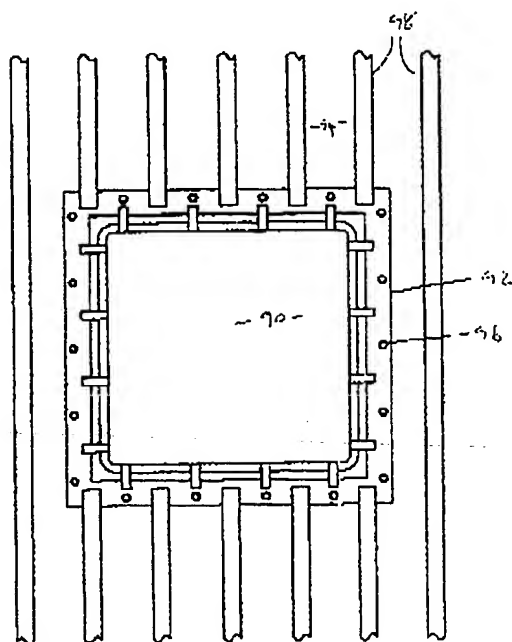
(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KI,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

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(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: IMPROVEMENTS RELATING TO IMPACT-RESISTANT STRUCTURES AND ASSEMBLIES



(57) Abstract: A transparent assembly locatable in a building surface having a rebate is described. The assembly has a transparent panel and one or more high tensile strength flexible material reinforcement pieces extending laterally from the panel to provide non-rigid attachment of the assembly to a subframe and/or wall, wherein the attachment allows movement of the assembly within the rebate. By direct but non-rigid attachment of the transparent assembly, generally a window, to the subframe and/or wall, any weakness in the impact-resistance of the assembly because of weakness and/or damage to the frame is avoided. The non-rigid nature of the attachment allows it to absorb much of the blast loading. This allows a larger load on the transparent assembly to be supported by the subframe and/or wall. The present invention also provides a number of ballistic-resistant and blast-resistant assemblies providing protection against much higher levels of protection from high velocity weapons and explosives.

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